

Claims

1. Plastic articles with low emission obtainable by polymerization, condensation, and/or cross-linking reaction including the use of metal catalysts wherein said metal catalyst has a low emissivity and is an organotin compound of the general formula



wherein R is a C₁-C₈-hydrocarbyl, X is a carboxylate group with 14-20 carbon atoms having at least one olefinic double bond with the proviso that

- a) said plastic article is not made of polyvinyl chloride including dimethyltin dioleate or dibutyltin dioleate as heat stabilizer,
 - b) said organotin compound is not dibutyltin dioleate and said plastic article is not a polyurethane foam,
 - c) said organotin compound is not dibutyltin diricinoleate and said plastic article is not a polyurethane,
 - d) said organotin compound is not dibutyltin dioleate and said plastic article is not polyester or cured silicone.
2. Plastic article according to claim 1, wherein in said organotin compound R is an aliphatic, saturated alkyl group.
 3. Plastic article according to claim 2, wherein in said organotin compound at least one alkyl group is methyl, butyl, or octyl.

4. Plastic article according to anyone of claims 1 to 3, wherein in said organotin compound X is a carboxylate group derived from a carboxylic acid of the type



wherein R' is a C₁₃-C₁₉-hydrocarbyl group having one or more olefinic double bonds.

5. Plastic article according to claim 4, wherein said olefinic double bonds are isolated double bonds.
6. Plastic article according to claim 4 or 5, wherein R' is an aliphatic, substituted or unsubstituted alkenyl group.
7. Plastic article according to anyone of the preceding claims, wherein in said organotin compound said hydrocarbyl and/or carboxylate group is a linear group.
8. Plastic article according to anyone of the preceding claims, wherein in said organotin compound the carboxylate group is selected from:
- oleate, ricinoleate, linoleate and linoleate.
9. Plastic article according to anyone of the preceding claims, wherein said organotin compound is liquid at room temperature (20-25°C).
10. Plastic article according to anyone of the preceding claims, wherein said plastic article is made of polyurethane or polysilicone.
11. Plastic article according to anyone of the preceding claims, wherein said plastic article is a foamed article.

12. Plastic article of claim 11, wherein the polyurethane foam is derived from aliphatic isocyanate.
13. Use of an organotin compound according to anyone of claims 1 to 10 in the manufacture of plastic articles with low emissivity of said organotin compound.
14. The use of claim 13, wherein said plastic article is a foamed article.
15. The use of claim 13 or 14, wherein said plastic article is made of polyurethane or polysilicone.
16. The use of any of claims 13 to 15 wherein said organotin compound is dioctyltin dicarboxylate.
17. The use of claim 16 wherein the carboxylate group is selected from:

oleate, ricinoleate, linoleate and linoleate.
18. The use of claim 17 wherein the organotin compound is dioctyl dioleate.